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Reconstruction Finance Corporation Arizona Records

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NAME OF MINE: YAVAPAI TREADWELL COUNTY: DISTRICT: METALS: CU OPERATOR AND ADDRESS: MINE STATUS DATE: DATE: Developing Ben Joy, Prescott Box 1323 Shipping 5/3/44 Louis Milner Groom Creek Suspended operations not histed octave

Lee Senator mine (file) RECONSTRUCTION FINANCE CORPORATION MINING SECTION REPORT OF SUPERVISING ENGINEER Docket No. ND-5632 - - - - - Ben E. Joy Date authorization for examination received - - - - - June 25, 1943 Date of Examination, incl. - July 7, 1943 Date of Report - - - - July 13, 1943 (1) NAME AND ADDRESS OF APPLICANT · BEN E. JOY P. O. Box 1323 Prescott, arizona Correspondent: Same (2) CHARACTER OF PROJECT To develop a shaft mine in order to produce copper-gold ore. (5) LOCATION OF MINE Township, range, section - unknown section in T 15 N, R.2 W., G. & S.R. B. & M. County and state: Yavapai County, Arizona Name and distance by road to the nearest railway station: Prescott, a town on the Santa Fe Railroad is 13 miles north by road from the mine. Condition and seasonable accessibility of road, mine to railway: 10 miles of this road is paved and the balance is a good graded dirt road. Since the elevation at the property is about 6,300* above Sea Level, there will be short periods during the winter months when the mine will be snowed in and the roads impassable. (4) The applicant, Ben E. Joy, operated a tungsten property under a \$20,000.00 Loan from the Reconstruction Finance Corporation (Docket No. B-ND-3802). His operation of this project was not particularly outstanding, although he co-operated with this Office satisfactorily. He is a middle-aged practical miner with no technical training. I believe he would be

- able to operate this project.
- (5) LOAN REQUESTED \$10,000.00

(6) DESCRIPTION OF PROJECT

A. General Features

Applicant has a 1 year lease on one patented claim (Treadwell) from the Phelps-Dodge Corporation. Lease requires 75 man-shifts per month and a 10%

royalty. Obviously one year would not be sufficient time if the property had merit.

The mine is developed by a small crooked shaft so it is probable that the State Mine Inspector would require a second exit before the ore was stoped.

B. Existing Development

The mine is developed by a small crooked ore compartment inclined shaft 104° deep with short levels at 48°, 77° and 104°. Considerable stoping has been done on all levels and most of the available ore has been stoped.

Underground workings are accessible but in poor condition as the workings are all small and the timber is partly rotten. The shaft makes no water. The accompanying plan map and section along the plane of the vein shows the relationship of the various workings and the location of the samples taken by the applicant and this engineer.

The shaft is located next to the county highway. There are no surface improvements except an old head-frame. No equipment is now on the property.

C. Geology or Ore Distribution

The mine is located near the center of an eroded batholith and in an area that contains numerous small high grade gold veins and one old copper mine. The formation containing the vein is schistose granite intruded by diorite that was in turn partly metamorphosed into schist.

The main vein strikes east and west and dips about 75° to the south. This vein follows a small fissure and the vein filling consists of quartz and schist containing pyrite, chalcopyrite, malachite, azurite and specular hematite. It is not a particularly good smelting ore as it only contains 39.40% silica.

Following is a list of samples taken by me:

Sample No.	Width	Oz.Au.	Oz.Ag.	% Cu.	Location of Sample
8	18"	0.01	0.60	None	104 Level - Bast face at
9	6	0.01	4.40	3.45%	77 Level - West side shaft in cross vein
10	14	0.40	1.20	1.85	77 Level - West face of
11	24	0.02	1.40	4.05	77 Level - Bast face of drift
Average	14"	0.11	1.5	2.57%	

West of the shaft we find a narrow cross vein on the 77' and 104' levels. This vein crosses the main vein but has only been wide enough to stope on the 104' level.

If the ore is shipped to the Clarkdale Smelter, we have the following results:-Smelter Payment 0.11 oz. x \$32.00 · · · · · · \$3.52 Gold: Silver: 1.5 oz. - 0.5 = 1.00 x \$0.706 . . Copper: 2.575 = 51.4 lbs. - 10 = 41.4 lbs. × 0.09 3.73 Total payment . . 87.96 Bonus on Copper: 51.4 lbs. x 97 x 90.05 2.50 Total value of ore \$10.46 Charges: Hauling 13 miles \$1.50 Freight - Prescott-Clarkdale . 1.30 3.00 Smelting Mining cost estimated 8.00 14.42 Royalty 10% 0.62 Total revenue per ton 10.46 Estimated net loss per ton \$ 3.98 Therefore, it is obvious that the ore sampled will not pay the expense of mining. There is no blocked out ore in the mine and all that remains is low grade ore located on the margins of the old stope. Taking an arithmetical average of the seven samples taken by the applicant, we derive the following figuresi 0.09 oz.au., 3.0 oz. ag., 5.84% Cu. On the same basis as the above, the gross value of this ore at the smelter would be \$14.26, plus a bonus of \$5.67 or a total value of \$19.93. Deducting estimated total costs of \$15.35, we have a net of \$4.57. However, since there is not more than 100 tons of ore in sight, even the applicant's high assays would not indicate that there is enough gross profit from ore in sight to amortize the loan. Since the applicant shows no widths for his samples, he obviously only sampled narrow high grade streaks a few inches wide. D. Proposed Development The applicant already has the necessary equipment at his tungsten mine now closed down. This equipment is actually the property of the Reconstruction Finance Corporation, since it was purchased with loan funds. Applicant estimates this equipment is worth \$5,000.00 and intends to use loan funds obtained from this loan to repay part of the other loan to the amount of \$5,000.00 for the equipment.

with the \$5,000.00 remaining from the amount requested for this loan, the applicant intends to drift west 100° on the 77° level and 225° east on the 104° level. Since this work would not start in ore and there is no reason to believe that new ore shoots will be found laterally along the vein, the work proposed by the applicant would be prospecting. The vein outcrop is not particularly strong and can only be traced for about 200°.

(7) COMMENTS OF SUPERVISING ENGINEER

I do not believe a loan on this project is justified for the following reasons:-

- 1. The ore is too low grade to pay expenses.
- 2. The vein only averages 14" wide, so mining costs will be high.
- 3. The workings are in poor shape and the shaft is too small and crocked for economical hoisting.
- 4. There is no blocked out ore in the mine and no indications that new ore will be found.
- 5. The lease is for too short a period of time to allow for much development work.
- 6. The geology of the district is not favorable for the occurrence of a large copper deposit.
- 7. There are no indications that a sustained and profitable operation can be conducted on this project.

WM. B. MAITLAND Supervising Engineer

Supermy Engineer Report 131 Dorbet No NO5632 Date authoritin for Egam. Red. June 25, 1943 Date of Examination, meline July 7, 1943 Date of Report July 13, 1943 1. Mane and address of applicant Mame Ben E Joy address P.O. Bry 1323 aty + State Prescott aring. Concepadent - Same 2. Character of Project

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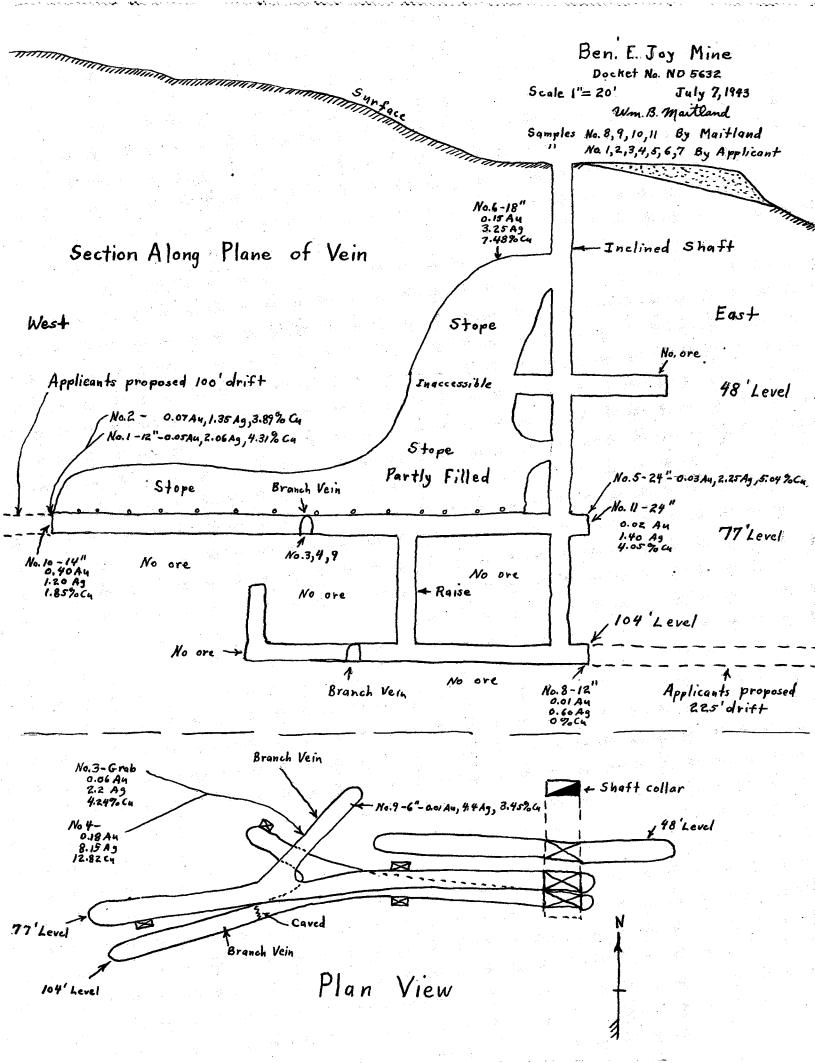
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CLAUDE E. MCLEAN TELEPHONE 3-6272 P. O. BOX 1888 ARIZONA TESTING LABORATORIES ANALYTICAL AND CONSULTING CHEMISTS ASSAYERS, MINING ENGINEERS 823 EAST VAN BUREN STREET ASSAY CERTIFICATE JULY 10 . 194 3 PHOENIX, ARIZONAL Me. W. B. Mitland. Supervising Sur. . NO 585 Econd Building Phoening Arizona WE HAVE ASSAYED THE SAMPLES RECEIVED FROM YOU AND FIND THE RESULTS AS FOLLOWS: GOLD FIGURED AT \$ PER OUNCE. SILVER FIGURED AT S. O. TOPER OUNCE. LAB. FORM 2 GOLD SILVER **PERCENTAGES** SAMPLE LAB. NO. non = JonSilion Oz. PER TON VALUE Oz. PER TON VALUE COPPER LEAD 40 - 10° CO DA AMMINA 0.030.60 (0.40 89 - 60 0.03 4000 3.00 4.40 3.45 $d10 - 10^{0}$ 0.40 1.20 0.34 ACCORD 1.98 0.00 0.70 1.40 0.00 ACCINI 4.00 Composite /9-11 40050 30-40 ETERID CLAUDE McI Fam RESPECTFULLY SUBMITTED. ARIZONA TESTING LABORATORIES

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